Compliance Component

DEFINITION	
Name	Acquisition and Development Phase
Description	The Acquisition and Development Phase of the system life cycle security is a process to establish and document security requirements, and incorporate them into information systems and resources**.**
Rationale	Organizations must consider information security in all phases of information resources management. Including security early in the information system development life cycle (SDLC) will usually result in less expensive and more effective security than adding it to an operational system.
Benefits	• Including security at the beginning of the SDLC is more cost effective than adding security into a system after it has been built • The cost of a security incident is more expensive than incorporating preventive security measures

ASSOCIATED ARCHITECTURE LEVELS	
List the Domain Name	Security
List the Discipline Name	Management Controls
List the Technology Area Name	System Life Cycle Security
List Product Component Name	

COMPLIANCE COMPONENT TYPE	
Document the Compliance Component Type	Guideline
Component Sub-type	

COMPLIANCE DETAIL	
State the Guideline, Standard or Legislation	Agencies must establish and document security requirements for information system resources in the Acquisition and Development phase. This is accomplished by performing a security requirements analysis commensurate with the size and complexity of the system. The requirements analysis draws on and further develops the work performed during the Initiation phase. Components of the security requirements analysis are: • **Risk Assessment** – a formal process that identifies high impact assets, potential threats, and recommended controls. This builds on the initial risk assessment performed during the Initiation phase, but will be more in-depth and specific. It is used to determine what types of controls will be cost effective and will form the basis for determining mandatory and desirable security specifications for the system.

	• **Security Functional Requirements Analysis** – analysis of requirements that may include the following components: o agency information security policy o agency security architecture o laws, regulations, agreements (MOUs) • **Security Assurance Requirements Analysis** – analysis of requirements for assurance that the system information security will work correctly and effectively. o used as the basis for determining how much and what kinds of assurance are required (e.g. accreditation, certification, third-party evaluation, testing) • **Cost Considerations** –Once the controls are selected, the cost of each (including hardware, software, personnel, and training) can be totaled for the security cost over the life cycle of the system. • **Security Planning Documentation** – ensures that agreed upon security controls, planned or in place, are fully documented.		
Document Source Reference #	NIST SP 800-64, Security Considerations in the Information System Development Life Cycle; FIPS 199, Standards for Security Categorization of Federal Information and Information Systems.		
Standard Organization			
Name		*Website*	
Contact Information			
Government Body			
Name	National Institute of Standards and Technology (NIST), Computer Security Resource Center (CSRC)	*Website*	http://csrc.nist.gov/
Contact Information	inquiries@nist.gov		
KEYWORDS			
List all Keywords	Requirements, incorporate, SDLC, risk, impact, threat, controls, policy, architecture, laws, regulations, agreements, assurance, cost.		
COMPONENT CLASSIFICATION			
Provide the Classification	☐ *Emerging* ☒ *Current* ☐ *Twilight* ☐ *Sunset*		
Rationale for Component Classification			
Document the Rationale for Component Classification			
Conditional Use Restrictions			
Document the Conditional Use Restrictions			

Migration Strategy			
Document the Migration Strategy			
Impact Position Statement			
Document the Position Statement on Impact			
CURRENT STATUS			
Provide the Current Status)	☐ *In Development* ☐ *Under Review* ☒ *Approved* ☐ *Rejected*		
AUDIT TRAIL			
Creation Date	08-03-2006	*Date Accepted / Rejected*	
Reason for Rejection			
Last Date Reviewed		*Last Date Updated*	
Reason for Update			